

WHAT IS CLAIMED IS:

1. A sliding member for an electrophotographic apparatus, in which at least a sliding surface thereof is made of a non-porous sheet including a fluorocarbon resin.

2. A sliding member for an electrophotographic apparatus according to claim 1, wherein a surface roughness depth  $R_t$  of the sliding surface is in a range of 1.0  $\mu\text{m}$  to 50.0  $\mu\text{m}$ .

3. A sliding member for an electrophotographic apparatus according to claim 1, wherein the fluorocarbon resin is selected from the group consisting of polytetrafluoroethylene (PTFE), perfluoroalkoxy resin (PFA), and modified resins thereof.

4. A sliding member for an electrophotographic apparatus according to claim 1, wherein the fluorocarbon resin is a modified polytetrafluoroethylene resin (PTFE) obtained by irradiating a fluorocarbon resin with ionizing radiation.

5. A sliding member for an electrophotographic apparatus according to claim 1, wherein a filler is contained in the non-porous sheet.

6. A sliding member for an electrophotographic apparatus

according to claim 2, wherein a filler is contained in the non-porous sheet.

7. A sliding member for an electrophotographic apparatus according to claim 3, wherein a filler is contained in the non-porous sheet.

8. A sliding member for an electrophotographic apparatus according to claim 4, wherein a filler is contained in the non-porous sheet.

9. A sliding member for an electrophotographic apparatus according to claim 5, wherein the filler is a lubricative filler having a layered structure.

10. A sliding member for an electrophotographic apparatus according to claim 5, wherein the filler is a conductive filler.

11. A sliding member for an electrophotographic apparatus according to claim 5, wherein the filler includes a heat resistant resin selected from the group consisting of an imide-type resin, an amide-type resin and an aromatic polyester-type resin.

12. A sliding member for an electrophotographic apparatus according to claim 5, wherein the filler is a reinforcing filler having

a needle-shaped, fiber-shaped or tetrapod-shaped structure.

13. A sliding member for an electrophotographic apparatus according to claim 5, wherein the filler includes at least two kinds of fillers.

14. A sliding member for an electrophotographic apparatus according to claim 5, wherein an amount of the filler to be added is in a range of 1.0 part by mass to 30 parts by mass with respect to 100 parts by mass of the fluorocarbon resin.

15. A sliding member for an electrophotographic apparatus according to claim 1, wherein the non-porous sheet is provided on a substrate which has depressions and protrusions on a surface thereof.

16. A fixing device comprising:

a driving member;

a tubular body for fixing, which is pressed to the driving member so that the tubular body can be driven to rotate by the driving member, a recording medium on which an unfixed toner image is formed being sandwiched between the tubular body and the driving member at a nip portion formed between the tubular body and the driving member,

a press member disposed inside the tubular body that

presses the tubular body toward the driving member;

a sheet-shaped member interposed between the tubular body and the press member;

a lubricant provided between the tubular body and the sheet-like member; and

a heat source for heating the nip portion,

wherein the sheet-shaped member is a sliding member for an electrophotographic apparatus in which at least a sliding surface of the sliding member is made of a non-porous sheet including a fluorocarbon resin.

17. A fixing device according to claim 16, wherein the lubricant is selected from the group consisting of a synthetic lubricating oil grease, a dimethylsilicone oil, dimethylsilicone oil to which an organic metal salt is added, dimethylsilicone oil to which a hindered amine is added, dimethylsilicone oil to which an organic metal salt and hindered amine are added, a methylphenylsilicone oil, amino-modified silicone oil to which an organic metal salt is added, amino-modified silicone oil to which a hindered amine is added, a perfluoropolyether oil and a modified perfluoropolyether oil.